

# Supercom P

## LoRaWAN® Pulse-Radio Converter



### Application

The LoRaWAN® pulse-radio converter Supercom P is suitable for remote reading of measuring devices of all kinds of supply types of measuring instruments - and transmits the consumption data to be read out via LoRaWAN®.

The LoRaWAN® pulse-radio converter Supercom P is equipped with two pulse inputs and one wire M-Bus master interface allowing to manage up to 2 M-Bus devices (slaves).

## Function

The Supercom P pulse-radio converter scans (detects) the pulses of one or two measuring devices, accumulates them and stores the consumption data.

Up to 2 M-Bus devices (slaves) can be connected to the wire M-Bus Master interface of the Supercom P and the data of the M-Bus devices can be read and transmitted by LoRaWAN®. This transmitted data can be defined by user.

The pulse-radio converter has additional four status inputs, two inputs each for fraud and reverse flow detection.

With the Superprog software (Android/Windows), the set of parameters of the measuring devices and the two M-Bus devices can be freely programmed via the NFC interface. The Supercom NFC read/write head (SMNFC) is required, when using Superprog Windows.

## Stored Data

- Serial number
- Identification number (serial N° of connecting devices)
- Set day
- Medium: (cold or hot water, electricity, gas, etc.)
- Current time and date, battery operating hours

- Cumulative energy, current +15 monthly values
- Fraud detection meter or pulse cable
- Reverse flow detection
- Number of counter resets
- Error code
- Firmware version
- Operating hours
- 15 monthly values
- LoRaWAN device / Join EUI

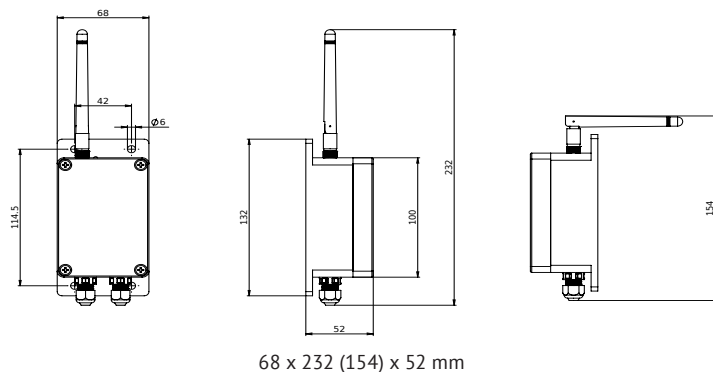
## Programming Data

- Current date, time and set day
- Medium: e.g. cold or hot water
- Unit and pulse factor unit
- LoRaWAN function active / inactive
- Transmission interval SP7-12 in minutes
- Radio activity (transmission day, start time, transmission interval)
- Selection of telegram: either short or long telegram
- Password for secures programming access

## Technical Data

<b>General</b>	<ul style="list-style-type: none"> <li>■ Weight</li> <li>■ Cable routing</li> </ul>	0.350 Kg Through 2 cable glands
<b>Mounting</b>	<ul style="list-style-type: none"> <li>■ Wall mounting</li> <li>■ Mounting on DIN-Rail</li> </ul>	with 4 external screw holes with optional mounting plate
<b>Protection class</b>	<ul style="list-style-type: none"> <li>■ Housing</li> </ul>	IP68
<b>Temperature</b>	<ul style="list-style-type: none"> <li>■ Operation</li> <li>■ Storage</li> </ul>	5°C up to 55°C -20°C up to 70°C (dry environment)
<b>Radio</b>	<ul style="list-style-type: none"> <li>■ Method</li> <li>■ Power</li> <li>■ Frequency</li> <li>■ Protocol</li> </ul>	LoRa, bidirectional 14 dBm (25mW) 868 MHz (863 - 870 MHz) EN60780-5 (M-Bus)
<b>NFC-Interface</b>	<ul style="list-style-type: none"> <li>■ Method</li> <li>■ Frequency</li> <li>■ Protocol</li> </ul>	ASK, bidirectional 13.56 MHz NFC, ISO 15693
<b>Data Memory</b>	<ul style="list-style-type: none"> <li>■ Flash and RAM</li> </ul>	
<b>Power supply</b>	<ul style="list-style-type: none"> <li>■ Battery</li> <li>■ Life time</li> <li>■ External power supply</li> </ul>	3.6 V Lithium Battery Max. 6 +1 Years 5 - 30 VDC (mandatory by using M-Bus)
<b>Pulse inputs specification</b>	<ul style="list-style-type: none"> <li>■ Maximum frequency                             <ul style="list-style-type: none"> <li>● Channel 1</li> <li>● Channel 2</li> <li>● Min. Pulse length</li> </ul> </li> </ul>	20 Hz 20 Hz 2 ms (galvanically not separated)

## Dimensions



**CE Conformity**

according to RED 2014/53/EU

**UKCA Conformity****Technical Support**

For technical support, please contact your local Sontex agent or Sontex SA directly.

**Sontex Hotline**

support@sontex.ch, +41 32 488 30 04

Specifications are subject to change without notice.